**DNCT Committee**
**Meeting Notes**
**Wednesday, 1:00-5:00**
**11/18/98**

**Agenda:**

i. Evaluation of scenarios to management by Monday.
ii. Environmental Water Account
  a. What is it
  b. Where is it
  c. How do we fill it
  d. How do we use it
  e. How big is it
iii. Facilities (fish facilities team leaders)
iv. Clarification of Scenarios:
  Details of tools, costs, benefits
v. Issues - loud and clear

**Action Items**

1. Modelers: run scenarios by Tues.
2. DEFT: define how to use EWA water in scenarios.
3. Everyone: Ron asked that we do not use the phrase "relaxing standards".
4. DEFT: define flexibility triggers for A1 actions
5. DEFT: need rules for triggering A1 actions

**Highlights**

I. DWR modeling team presented scenario results. They were given corrections to make.
II. Discussed EWA
III. Russ presented figures for scenario A daily model to show effects of each measure on exports.
IV. Set two tiers for NNG tool applications.
V. Discussed Scenario F concept.

**DWR Model of FWS Scenario (A1)**

a. Concern about San Joaquin water supply to meet extended VAMP.
b. How often is VAMP handled.
c. No Hood diversion
d. Impacts present in Figure 3.
e. QWEST standard applies, otherwise E/I still applies
f. February 14 day VAMP
g. Includes NNG tools except Semitropic, exchanges/purchases

New Instructions for modeling A1:

h. VAMP 61 days not 75 - through June 15.
i. Capped



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j. Need more realistic rules for triggering Jan-Mar QWEST and Feb VAMP - **DEFT Action** to modelers
k. QWEST standard too limiting in Nov-Dec; need a less active trigger - **DEFT Action** to modellers
l. Model with and without Hood diversion.
m. Hood should be modeled at 2,000 and 4,000 cfs
n. A1 Light: Tier 1 NNG tools only, BANKS of 8,500
o. A1 Reg: all NNG tools, BANKS of 10,300.

Instructions for other modelling other scenarios or general:
p. All should include expanded Banks and JPOD
q. All should have the same facilities and tools + water supply actions + Hood diversion (A1 should run with and without Hood)

**DWR Model Runs of other scenarios**

**B:** same as "A1" but phased
C: Unlimited wheeling to CVP. Env could benefit from higher Banks. Different demands and storage changes results.
D: AFRP #1, 4, & 6 are only AFRP actions in. Provides more basic water supply than other scenarios with different baselines.
E: Export Reductions using Russ's days of restrictions instead of VAMP. No E/I.
C&E: long term (include Tier 2 NNG tools) -

**Hood Diversion Size:**

Fish facilities team leaders (Dan Odenweller and Daryl Hayes) stipulated that Hood size recommended was 1500-3000 cfs for the purpose of testing. They did not evaluate effects of particular sized diversions and thus would not have had a specific opinion as to whether the diversion should be 2,000 or 4,000 cfs.

**NNG Tool Schedule:**

**Short term (Tier 1) - 1-2 years:** Kern GW Bank, Semitropic GW Bank, short term purchases, exchanges. Enlarged Banks, JPOD, Intertie
**Longer Term (Tier 2) - 2+ years:** Madera Ranch GW Bank, in-Delta storage, enlarged Shasta, exchanges purchases,

**Russ's Daily Model Run of Scenario A and other scenarios**

- Bruce: daily model does not take into account options for changing upstream storage - overestimates water supply hit.
- Russ: only meant to show relative effects of each measure on operations - but slightly overestimates ws hit.
- Dave F: still concerned about sequential modeling of San Luis storage.
- Russ: ran that and showed little effect.
- Bruce: wants to see individual year plots. **Action for Russ.**
- Bruce: split out salmon and smelt restriction days by month. **Action for Russ.**

**B.J. Present Alternative F**

- X2 flexing for EWA water only
- flexing E/I - shared

**Comments:**

1. Bruce: the February VAMP should not be triggered in every year; only after wet months.
2. Sushil: monthly time step is a problem.
3. B.J.: scenarios with EWAs would provide further env benefits if EWA were applied; thus these runs don't accurately portray fish protection.
4. B.J.: Is Hood diversion realistic for Stage 1?; FWS would allow as a WQ measure. Hood would provide 400 TAF, while JPOD/BANKS would provide 200 TAF in A1.
5. Bruce: Recommends dropping A for A1. - All agree. **Action - "A" dropped.**
6. Pete R: Need to simulate Hood at various levels to determine effect on A1. We should carry forth issues/problems if we include either Hood level.
7. Jim W: Hood is only an issue with timing - if we really don't trigger QWEST that often, then we may not need Hood to protect water supply.
8. Dave F: In-Delta storage and south-of-Delta storage would help to meet VAMP.
9. B.J.: Delta wetlands would provide about 240 TAF.
10. George: Identifying storage is an engineering concern.
11. Bruce: We should be using all NNG tools in the scenarios.
12. Elise: Scenarios should be portrayed with all their caveats.
13. B.J.: Scenario B NNG tool application should reflect our schedule.
14. Dave F: Include Tier 1 NNG tools in A1 to reflect early Stage 1. Should have limited standards to match Tier 1 water supply. B1 can have all NNG tools with more stringent standards to match.
15. George: hard to model magic water (e.g., extended VAMP) - where does it come from.
16. B.J.: Any deficits in WS predicted by models should be made up by (1) transfers South of Delta or (2) water purchased NOD as a matter of policy. Post processor analysis should portray these requirements - no need to model specifically.
17. Elise: should include provision for non-export water to meet some of demands. (Transfers, purchases, conservation, recycling)
18. Chet B: look at shortfalls as one user buying from the others.
19. George: How do we make this work on a yearly basis?
20. Dave F: Should run A1 Light and Regular.
21. B.J.: Need to Define flexibility of A1 standards - **DEFT Action**
22. Bruce: Already have triggers that can't be modeled. A1 standards are flexible based on salmon salvage, monitoring. We could use salvage data to simulate triggers.
23. Bruce: A1 is modeled as worst case -- too stringent.VAMP and spring QWEST also have flex triggers. Model did not include winter 14 VAMP after wet January.
24. Gary: CWT - QWEST trigger would not trigger in November as modeled; only in January after wet San Joaquin. For C, D, and E we need to apply EWA water to be realistic.
25. Karl: enlarging Hood is not a good way to help QWEST - better to scale back on QWEST standard.
26. Pete R: how do we balance water supply costs in A1 and B1 - should we waste time

trying to model without knowing when standards are triggered?

27. B.J.: would like E based on Accord, not AFRP. Can use EWA water first to meet AFRP, then share additional water.
28. Russ: need to define how we use EWA in C, D, and E.

**Agenda for next two days:**

- Issues statements
- EWA
- Bruce's Hybrid
- Scenario F evaluation
- DEFT - biol triggers (on/off)



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